JAITN3017N03

PW

AMERADA PETROLEUM 1 NAVAJO-9/ SE/4SE/4 S7-T39N-R24E, Apache 55 - 1

| OUNTY Apache | A | REA Greasewood F | lease NO | |
|--|--------------|--------------------|-------------------------------|-------------------------------|
| ELL NAMEAmerada | #1 Navajo- | 91 | | |
| CP CF | 7 | 39N D.110 | n 24E noom an 660 | FSL 660 FEL |
| OCATION SE SE | SEC | TWP RANG | EFUUTAGE | TOTAL |
| | KB SPUI | DATE 11-10-64 | COMP. DATE 12 | TOTAL -20-64 DEPTH 6573' 6578 |
| ONTRACTOR | | A TURBO OTER C. F. | ADDRESS. | |
| CASING SIZE DEPTH | CEMENT | LINER SIZE & D | | ROTARY × |
| 9 5/8 823 | 400_sx | · | DRILLED BY | CABLE TOOL |
| • | | | PRODUCTIVE | RESERVOIR |
| | | | TNTTTAL PRO | DUCTION D&A |
| | | | | |
| | | SOURCE | | |
| FORMATION TOPS | DEPTHS | L.L. E.L. | REMARKS | |
| DeChelly | 1912' | | Tapeats 64 Granite Wash 65 | 43 201 |
| Organ Rock | 2577 | | Granite wash 05 | 30 |
| Upper Hermosa | 3963 4480 | | | |
| Paradox " A | 4493 | | | |
| <u> п В </u> | 4668 | | | |
| " C | 4779 | | | |
| Lower Hermosa | 5110 | | | |
| Molas | 5283 | | | |
| Mississippian | 5400 | | | |
| Ouray Elbert | 5797 5888 | | | · |
| McCrac ken | 6073 | | | |
| Aneth | 6217 | | | |
| Bright Angel | 6377 | | | · |
| LECTRIC LOGS | PERI | FORATED INTERVALS | PROD. INTERVALS | SAMPLE LOG Am Strat |
| Induction; GRN, Son | | NA | NA. | SAMPLE DESCRP. |
| | | | | SAMPLE NO. 1299 |
| | | | | CORE ANALYSIS DSTs |
| | | | <u> </u> | Tuc 2027 |
| | | | | |
| REMARKS SEE MUD & | CUTTINGS AN | NALYSIS | | APP. TO PLUG |
| | | | | PLUGGING REP. X |
| <u> </u> | | | | ·· |
| | | | | COMP, REPORT |
| VATER WELL ACCEPTED | ВҮ | | | |
| BOND COInsuran | | | ተለጥድ | |
| BOND AMT. \$ 10,00 | <u>00</u> c | ANCELLED 11-22-6 | ORGANIZATION | N REPORT |
| FILING RECEIPT 93 | 396 L | OC. PLAT X | WELL BOOK X | PLAT BOOK X |
| API NO. | n | ATE ISSUED 11- | 10-64 DEDICATION | S/2 SE/4 |
| PERMIT NUMBER | | | | |

(over)

7

DRILL STEM TEST TO RESULTS FROM NO. Paradox Zone, 1 Hr & 15 min. Test 4 1/2" DP. No water cushion. 3/4" Btm. & 1 1/8" Top Opening in Tool. Opened tool, had very weak blow of air and died in 15 min. Closed tool for 90 min. Pulled packers loose, rec. 20' dm, no show of oil, gas or water. 1 5031 4952 Paradox or Lover Hermosa. 1 1/2 hr. test. 41/2" DP. No water cushion. Rec. 50' of dm, no show or oil, gas or water. 5154 5066 CORE RECORD RECOVERY REMARKS TO NO. REMEDIAL HISTORY NEW PERFORATIONS WORK PERFORMED DATE STARTED - COMPLETED ADDITIONAL INFORMATION

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ARIZONA APACHE CO. WILDCAT (W)

PETROLEUM INFORMATION
CASPER
ROCKY MOUNTAIN
DIL INFORMATION

Twp 39n-24e Section 7 se se 660 n/s 660 w/e WELL#: | Navajo Tract-91

13-3/8" @ 20 9-5/8" @ 823 w/400

PB:

COMPL: 12-20-64

OPR: Amerada Pet

ELEV: 5194 DF TOPS: Log-WANNEK DeChelly 1912 Organ Rock 2577 Hermosa 3963 Paradox 4480 Molas 5283 Mississippian 5400 Devonian 5797 Cambrian 6377

6

DSTS. & CORES:

DSTS. & CORES:

No cores. DST 49525031, open 1 1/4 hrs, SI
1½ hrs, rec 20 mud, FP
56-56#, FSIP 85#, HP
2418-2418#. DST 50665154, open 1½ hrs, SI
1½ hrs, rec 50 mud, FP
29-29#, FSIP 1618#, HP
2378-2378#. DST 54455520, open 1½ hrs, SI 1½
hrs, rec 40 mud, FP 2929#, FSIP 103#, HP 26222608#. DST 6040-6133, open 4 hrs, SI 1½ hrs, rec 90 sli WCM, 3845 salt wtr, no press reported.

Contra Revenue.

D&A

SPUD: 11-10-64

Contr: Rowan

ARIZ3-562260

| Rev. 5-63) | | U | ED ST | ATES | SUBM | ait in di | UP! (See other i | Bu | rm approved. siget Bureau No. 42-R3 |
|---|--|---|---|--|--|--|--|--|---|
| | DEPART | | | - | ERIO | R | structions of reverse side | n S LEVEE DESI | IGNATION AND SERIAL |
| 7 | | SEOLOG | ICAL S | URVEY | • | | ititise sine | Fed. #14- | -20-0603-8063 |
| | | | | | TOOPT | ANID | LOG* | 6. IF INDIAN, | ALLOTTRE OR TRIBE N |
| WELL COM | PLETION | | | | PUKI | ANU | <u> </u> | Navajo | Santa Valen |
| 1a. TYPE OF WELL: | O11. | L . GAS | | DRY K | ther | | | 7. UNIT AGREE | EMENT NAME |
| b. TYPE OF COMPLI | ETION: | ि िच्च विक्र | | IFF. | | | | S. FARM OR L | EASE NAME |
| WELL 📥 01 | | P- PLO | кЦ г | ESVR. O | ther | | | Navajo T | <u>.</u> |
| 2. NAME OF OPERATOR | | namatian | • | | | | | 9. WELL NO. | · · · · · · · · · · · · · · · · · |
| Amerada Petro | OF COL | hotanthi | | | - | | | 1 | · |
| Por 1/40 Du | manan Co | lorado | | | | <u> </u> | | .1 | POOL, OR WILDCAT |
| 4. LOCATION OF WELL At surface SE/4 | 4.50 A Zanadio | w alamalia and | in accorda | nce with any | State requ | sirementa) 39N-R2 | ZAE. | Wildcat | L, M., OR BLOCK AND SU |
| At surface 25/4 Ariäel | oe/4, oo he Countv | , <u>Arizo</u> i | na. | | | 7 1 44 PAP | | OR AREA | 39N-R24E |
| Apacl At top prod. inter | val reported be | low | v ⁼ | | | | | | od Flat Area |
| At total depth | | N 4 4 4 | | | | | | | |
| 95 | | | <u> 14</u> . | PERMIT NO. | La | DATE IS | _ | 12. COUNTY O | |
| • | | | | is. No. | | 11/10 | | Apache | ATIZONA 19. ELEV. CASINGHE |
| 1 | 16. DATE T.D. B | 1. | | | _ | | | TOS! | 5185 |
| 11/10/64 | retro 1 93 mars | IG, BACK T.D., | Dry Ho | 22. IF MULT | | | 51, KB 5 23. INTERVAL | LS ROTARY TOO! | |
| 20. TOTAL DEPTH, MD & | | iole - P | | HOW MA | NT* | • | DRILLED | 0' to 657 | 731 None |
| 65731 24. PRODUCING INTERV | AL(S), OF THIS | COMSTELLOR | TOP, BOT | OM, NAME (M | D AND TVL | D)* | | | 25. WAS DIRECTION SURVEY MADE |
| None - Dry Ho | | | , : : | | | | | | No |
| • | <u> - 1</u> | · · · · · · | • | <u> </u> | | - - | | | 27. WAS WELL CORE |
| 26. TTPE ELECTRIC AN | | | | | . براي | | | 1 | |
| | | | | | | | | | |
| Induction-Ele | ectrical . | Log, Gar | ma Rey | -Neutron | & Son | ie log | nell) | | No |
| 28. | ectrical | - · · · | CASING R TH SET (M | ECORD (Rep | & Son ort all stri LE SIZE | 10 LOG ings set in | well) | ING RECORD | AMOUNT PUL |
| 28. CASING SIZE | WEIGHT, LB. | √FT. DEF | CASING R | ECORD (Repo | ort all siri | ings set in | CEMENT | ne accoad | AMOUNT PUL |
| 28. | | √FT. DEF | CASING R | ECORD (Repo | ort all stri LE 617E | ings set in | CEMENT | Reg. Cement | AMOUNT PUL |
| 28. CASING SIZE | WEIGHT, LB. | √FT. DEF | CASING R | ECORD (Repo | ort all stri LE 81ZE -1/4H | ings set in | CEMENT CEMENT | Reg. Cement | AMOUNT PUL |
| 28. CASING SIZE | 32.30 | /PT. DEF | CASING H TH SET (M 231 | ECORD (Repo | ort all stri LE SIZE -1/4H | ings set in | CEMENT Sacks I | Reg. Cement | AMOUNT PUL |
| 25. CASING SIZE 9-5/8** | 32.30 | JFT. DEF | CASING H TH SET (M 231 | ECORD (Republic Property of Pr | ort all stri | 400 Cem | CEMENT CEMENT | Reg. Cement | AMOUNT PUL |
| 25. CASING SIZE 9-5/8** 29. SIZE | 32.30 | /PT. DEF | CASING H TH SET (M 231 | ECORD (Repo | ort all stri LE SIZE -1/4H | 400 Cem | CEMENT CE | Reg. Cement | AMOUNT PUL |
| 25. CASING SIZE 9-5/8** | 32.30 | JFT. DEF | CASING B TH SET (M 23 1 CORD MD) SAC | ECORD (Republic Property of Pr | ort all stri | 400 Gem | Sacks Inent Circ | TUBING REC | ORD PACKER SET |
| 25. CASING SIZE 9-5/8 n 29. SIZE None | WEIGHT, LB. 32.30 TOP (MD) | LINER RE | CASING H TH SET (M 23 i | ECORD (Republ) 12 RECORD (Republ) | ort all stri | 400 Gem | Sacks Inent Circ | TUBING RECURENCE OF THE SET (B | ORD PACKER SET NT SQUEEZE, ETC. |
| 25. CASING SIZE 9-5/8** 29. SIZE None | WEIGHT, LB. 32.30 TOP (MD) | LINER RE | CASING H TH SET (M 23 i | ECORD (Republic Property Prope | ort all stri LE SIZE 1/4 H SCREEN 32. | 400 Gem | CEMENT CEMENT Sacks I nent Circ 30. SIZE None | TUBING RECURENCE OF THE SET (B | ORD PACKER SET |
| 29. SIZE None 31. PERFORATION REC | WEIGHT, LB. 32.30 TOP (MD) | LINER RE | CASING H TH SET (M 23 i | ECORD (Republ) 12 RECORD (Republ) | ort all stri LE SIZE 1/4 H SCREEN 32. | (MD) ACI | CEMENT CEMENT Sacks I nent Circ 30. SIZE None | TUBING RECURENCE OF THE SET (B | ORD PACKER SET NT SQUEEZE, ETC. |
| 29. SIZE None 31. PERFORATION REC | WEIGHT, LB. 32.30 TOP (MD) | LINER RE BOTTOM (size and num | CASING H TH SET (M 23 i | ECORD (Republ) 12 RECORD (Republ) | screen SZ. DEPTH | (MD) ACI | CEMENT CEMENT Sacks I nent Circ 30. SIZE None | TUBING RECURENCE OF THE SET (B | ORD PACKER SET NT SQUEEZE, ETC. |
| 29. SIZE None 31. PERFORATION REC | WEIGHT, LB. 32.30 TOP (MD) | LINER RE BOTTOM (| CASING H TH SET (M 23 i | ECORD (Republ) 12 RECORD (Republ) | screen SZ. DEPTH | (MD) ACI | CEMENT CEMENT Sacks I nent Circ 30. SIZE None | TUBING RECURENCE OF THE SET (B | ORD PACKER SET NT SQUEEZE, ETC. |
| 29. SIZE NONE 31. PERFORATION REC. | WEIGHT, LB. 32.30 TOP (MD) | LINER RE BOTTOM (| CASING R TH SET (M 231 CORD MD) SACT | ECORD (Republ) Hot 12 ES CEMENT* | SCREEN SCREEN BCREEN BCREEN BCREEN BOUGTION | (MD) AGI | Sacks Inent Circ | TUBING RECURENT SET (S | ORD PACKER SET NT SQUEEZE, ETC. |
| 29. SIZE None 31. PERFORATION REC | WEIGHT, LB. 32.30 TOP (MD) ORD (Interval, | LINER RE BOTTOM (| CASING R TH SET (M 231 CORD MD) SACT | ECORD (Republic Property Prope | SCREEN SCREEN BCREEN BCREEN BCREEN BOUGTION | (MD) AGI | Sacks Inent Circ | TUBING REC DEPTH SET (3 RACTURE, CEMEN AMOUNT AND XI | ORD PACKER SET NT SQUEEZE, ETC. |
| 29. SIZE NONE 31. PERFORATION REC. NONE | WEIGHT, LB. 32.30 TOP (MD) ORD (Interval, | LINER RE BOTTOM (| CASING R TH SET (M 231 CORD MD) SACT | ECORD (Republ) Hot 12 ES CEMENT* | SCREEN SCREEN BUCTION BUCTION | (MD) ACI INTERVAL | Sacks Inent Circ 30. SIZE None ID, SHOT, FI | TUBING REC DEPTH SET (S RACTURE, CEMEN AMOUNT AND SI | ORD ORD YT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing tut-in) |
| 29. SIZE NONE 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT | WEIGHT, LB. 32.30 TOP (MD) ORD (Interval, | INDER RE BOTTOM (Bize and num Bize and num COUNTRY (CHOCK (| CASING H TH SET (M 231 CORD MD) SAC THOR (Flow | ECORD (Republ) Hot 12 ES CEMENT* | SCREEN SCREEN BCREEN BCREEN BCREEN BOUGTION | (MD) ACI INTERVAL | Sacks Inent Circ | TUBING REC DEPTH SET (S RACTURE, CEMEN AMOUNT AND SI | AMOUNT PUL ORD YT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing unt-in) BL. GAS-OIL RATIO |
| 29. SIZE None 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole Date of Test | TOP (MD) TOP (MD) TOP (MD) TOP (MD) | LINER RE BOTTOM (size and num obuction Me | CASING H TH SET (M 231 CORD MD) SACTOR THOD (Flow | ECORD (Republ) 12 ES CEMENTS ES CEMENTS PROD'N FOR TEST PERIOD | SCREEN SC | (MD) ACI INTERVAL | Sacks Inent Circ 30. SIZE NONE ID, SHOT, FI (MD) ype of pump) | TUBING REC DEPTH SET (S RACTURE, CEMEN AMOUNT AND SI | AMOUNT PUL ORD MD) PACKER SET VT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing tut-in) BL. GAS-OIL RATIO |
| 29. SIZE None 31. PERFORATION REC NOne 33.* DATE FIRST PRODUCT Dry Hole | WEIGHT, LB. 32.30 TOP (MD) OED (Interval, | LINER RE BOTTOM (size and nsize CHOE | CASING H TH SET (M 231 CORD MD) SAC THOR (Flow | ECORD (Republ) 12. RES CEMENTS RES CEMENTS PROD'N FOR TEST PERIOD OIL BEL. | SCREEN SC | (MD) ACI INTERVAL | Sacks Inent Circ 30. SIZE NONE ID, SHOT, FI (MD) ype of pump) | TUBING REC DEPTH SET (S RACTURE, CEMEN AMOUNT AND SI | AMOUNT PUL ORD YT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing unt-in) BL. GAS-OIL RATIO |
| 29. SIZE None 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole DATE OF TEST FLOW. TUBING PRESS. | TOP (MD) TOP (MD) OED (Interval, HOURS TESTE | LINER RE BOTTOM (Bize and num Bize and num CD CHOE SERE CALCE 24-E4 | CASING R TH SET (M 231 CORD MD) SACTOR THOD (Flow ULATED DUR RATE | ECORD (Republ) 12 ES CEMENTS ES CEMENTS PROD'N FOR TEST PERIOD | SCREEN SC | (MD) ACI INTERVAL | Sacks Inent Circ 30. SIZE NONE ID, SHOT, FI (MD) ype of pump) | TUBING REC DEPTH SET (S RACTURE, CEMEN AMOUNT AND SI | ORD YT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing states) BL. GAS-OIL RATIO |
| 29. SIZE None 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole Date of Test | TOP (MD) TOP (MD) OED (Interval, HOURS TESTE | LINER RE BOTTOM (Bize and num Bize and num CD CHOE SERE CALCE 24-E4 | CASING R TH SET (M 231 CORD MD) SACTOR THOD (Flow ULATED DUR RATE | ECORD (Republ) 12. ES CEMENT ES CEMENT FROD'N FOR TEST PERIOD OIL-BBL. | SCREEN SC | (MD) ACI INTERVAL | Sacks Inent Circ 30. SIZE NONE ID, SHOT, FI (MD) ype of pump) | TUBING RECURENCE DEPTH SET (BEACTURE, CEMEN AMOUNT AND SINGLE OF THE PROPERTY | ORD YT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing states) BL. GAS-OIL RATIO |
| 29. SIZE None 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole DATE OF TEST FLOW. TUBING PRESS. | TOP (MD) TOP (MD) ORD (Interval, HOURS TESTE CASINO PRESS | LINER RE BOTTOM (Bize and num Bize and num CD CHOE SERE CALCE 24-E4 | CASING R TH SET (M 231 CORD MD) SACTOR THOD (Flow ULATED DUR RATE | ECORD (Republ) 12. ES CEMENT ES CEMENT FROD'N FOR TEST PERIOD OIL-BBL. | SCREEN SC | (MD) ACI INTERVAL | Sacks Inent Circ 30. SIZE NONE ID, SHOT, FI (MD) ype of pump) | TUBING RECURENCE DEPTH SET (BEACTURE, CEMEN AMOUNT AND SINGLE OF THE PROPERTY | ORD YT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing states) BL. GAS-OIL RATIO |
| 29. SIZE NONE 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole DATE OF TEST FLOW. TUBING PRESS. 34. DISPOSITION OF G | TOP (MD) TOP (MD) ORD (Interval, HOURS TESTE CASINO PRESS AS (Sold, used MENTS | LINER RE BOTTOM (size and nsize conduction Mere graph Choic graph | CASING H TH SET (M 23 1 CORD SIDON SACTOR THOD (Flow E SIZE ULATED DUB RATE Ed, etc.) | PROD'N FOR TEST PERIOD OIL—BBL. | SCREEN SCREEN BOUCTION OIL B GG | (MD) AGI INTERVAL AIZE and t | CEMENT CEMENT CEMENT Sacks I nent Circ 30. SIZE NONE ID, SHOT, FI L (MD) Where of pump GAS—MCF. | TUBING REC DEPTH SET (3 RACTURE, CEMEN AMOUNT AND SI WATER—BE | AMOUNT PUL ORD MD) PACKER SET VT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing tut-in) BL GAS-OIL RATIC OIL GBAVITY-API (CC |
| 29. SIZE NONE 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole DATE OF TEST FLOW. TUBING PRESS. 34. DISPOSITION OF G | TOP (MD) TOP (MD) ORD (Interval, HOURS TESTE CASINO PRESS AS (Sold, used MENTS | LINER RE BOTTOM (size and nsize conduction Mere graph Choic graph | CASING H TH SET (M 23 1 CORD SIDON SACTOR THOD (Flow E SIZE ULATED DUB RATE Ed, etc.) | ECORD (Republ) 12. ES CEMENT* ES CEMENT* PROD'N, FOR TEST PERIOD OIL BEL. | SCREEN SCREEN BOUCTION OIL B GG | (MD) AGI INTERVAL AIZE and t | CEMENT CEMENT CEMENT Sacks I nent Circ 30. SIZE NONE ID, SHOT, FI L (MD) Where of pump GAS—MCF. | TUBING REC DEPTH SET (3 RACTURE, CEMEN AMOUNT AND SI WATER—BE | AMOUNT PUL ORD MD) PACKER SET VT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing tut-in) BL GAS-OIL RATIC OIL GBAVITY-API (CC |
| 29. SIZE NONE 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole DATE OF TEST FLOW. TUBING PRESS. 34. DISPOSITION OF G 35. LIST OF ATTACH Drill Stem 36. I hereby certify | TOP (MD) TOP (MD) ORD (Interval, HOURS TESTE CASING PRESS AS (Sold, used MENTS Tests and that the force | LINER RE BOTTOM (Bize and num Bize and num CO CHOE 24-Ex For fuel, conf | CASING H TH SET (M 23 1 CORD SICORD | PROD'N FOR TEST PERIOD OIL BBL. | screen SCREEN BCREEN BCREEN BOUCTION OUT ON OUT | (MD) AG (MD) AG (MD) AG (MD) AG (MD) AG (MD) AG (MD) | CEMENT CEMENT CEMENT Sacks I nent Circ 30. SIZE NONE ID, SHOT, FI L (MD) Where of pump GAS—MCF. | TUBING RECURENCE OF THE SET (SET OF THE SET (SET OF THE SET (SET OF THE SET O | AMOUNT PUL ORD MD) PACKER SET VT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing tut-in) BL GAS-OIL RATIC OIL GBAVITY-API (CC |
| 29. SIZE NONE 31. PERFORATION REC NONE 33.* DATE FIRST PRODUCT Dry Hole DATE OF TEST FLOW. TUBING PRESS. 34. DISPOSITION OF G | TOP (MD) TOP (MD) ORD (Interval, HOURS TESTE CASING PRESS AS (Sold, used MENTS Tests and that the force | LINER RE BOTTOM (Bize and num Bize and num CO CHOE SERE CALCI 24-Ex For fuel, cent | CASING H TH SET (M 23 1 CORD SICORD | ECORD (Republ) 12. ES CEMENT* ES CEMENT* PROD'N, FOR TEST PERIOD OIL BEL. | screen SCREEN | (MD) AGI (MD) AGI (NTERVAL) AS—MCF. | CEMENT CEMENT CEMENT Sacks Inent Circ 30. SIZE HONE ID, SHOT, Fi L (MD) GAS—MCF. V V S determined | TUBING RECORDER OF TUBING RECORD | AMOUNT PUL ORD MD) PACKER SET VT SQUEEZE, ETC. ND OF MATERIAL USED L STATUS (Producing unt-in) BL. GAS-OIL RATIO OIL GBAVITY-API (CO |

INSTRUCTIONS

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General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency or a State and or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be bushitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local fredering submitted, particularly with regard to local, area, or regional procedures and practices. See instructions on frems 22 and 24, and 38, below regarding sequence reports for separate completions. State and alrections is submitted, copies of all currently available logs (drillers, geologists, sample and regulations. All attachments abound be listed on this form, see item 35.

Hear 4: If there are no upplicable State requirements, locations on Tederal or Indian land should be described in accordance with Federal requirements. Consult local State and all completion is used as reference (where not otherwise shown) for depth mensurements given in other spaces on this form and in any natural more interval are requirements. Intervals reported for separate production from more thin one interval zone (multiple completion), so state in them 22 since interval, or intervals reported for separate production from more thin one interval zone (multiple engines on this form, and in item 24 show the production from more thin one interval assignments reported in the production from more thin one interval zone (multiple stage cementing and the location of the "cementing tool." Hear 33: Submit a separate producted supplemental records for each interval (See Instruction for items 22 and 24 above.)

**Hear 33: Submit a separate completion report on this record of for each interval (See Instruction for items 22 and 24 above.)

37. SUMMARY A

17/30/64

| | | | | | (, | | | | |
|--|---|-------------|---|--|--|--|--|-------------------|--|
| HOLOGIC MARKEUS | [[| MEAS, DEFTE | TOPS: 1912' | 39631 146931 146931 | 51101 | 57971 58881 60731 | 6217' 6377' 6443' | 65381 | |
| as, the track of t | 1 2 2 | | SCHIUMERRGER TO Dechelly Organ Rock | Upper Hermoss Paradox n "A" | | Mississippism Ouray Elbert McGracken | Aneth Bright Angel | Granite Wash | |
| ILL-STEM TESTS, INCLUDING | IDAGIA OF TOWNS OF POHOSITY AND CONTENTS THEMSON. SHOUTH PRESERVES, AND RECOMMENTAL SHOWS ALL IMPORTANT ZONES OF POHOSITY AND TOOL OPEN, PLOWING AND SHUTH PERSONS CUSHION USED, DIME TOOL OPEN, PLOWING AND SHUTHER PERSONS CONTENTS, RTC. | | DST #1 - Tested from 4952 to 5031', Paradox Zone, I Hr. & 15 Min. Issu. 4-1/2" DP, No Water Cushion, 3/4" Btm. & 1-1/8" Top Opening in Tool. Opened SCHIUMBERGER 4-1/2" DP, No Water Cushion, 3/4" Btm. & 1-1/8" Top Opening in Tool. Opened SCHIUMBERGER 4-1/2" DP, No Water Cushion of air and died in 15 Min Closed tool for 90 Dechelly 4-61 had a very weak blow of air and died in 15 Min Closed tool for 90 Organ Bock | 6#, 16 Min. BHP 56#, 50 Min. 85#, 70 Min. Hole Temp. 117 Deg | Lower Hermosa Zone, 1-1/2 & 1* Top Opening In Tool. | (.31 Bbls.) of #, FFP 29#, 10 0 Min. 1058#, 60 | 25/8# and | 1987 J | 6 COM 3 34 |
| INTERVALE; AND ALL DE | SHUT-IN PRESENTES, AND RECOVE | | ox Zone, I Hr. # -1/8# Top Openin in 15 Min. Clo | FFF 56#, 1 85#, 50 M Bottom Hole | Lower He to the To and died | | 90 Min. 1628#, F | TO COMM. | 0 % |
| allog administration services | TOOL OFBN. FLOWING AND | W.C | to 5031', Parad n, 3/4" Btm. & 1 of air and died | led packers loose, recovered 20, gas or water. IHP 24,18#, IFP 56#, 30 Min. 85#, 50 Min. 85#, 90 Min. 85#, FHP 24,18# and B | to 5154', Paradoer Cushion, 3/4 | Pulled packers loose, recovered 50 oil, gas or water. INP 2378#, IFP 500#, 30 Min. 700#, 40 Min. 872#, | 80 Man. 1545#, | | 11211 |
| S ZONES: | INT ZONES OF POROSITY AND STREET, TIME | TOP | DST #1 - Tested from 4952' to 5031', Paradox 4-1/2" DP, No Water Cushlon, 3/4" Btm. & 1-1/4-1/2" had a very weak blow of air and died in | Min. HFP. Pulled packers loose, recovered 20 show of oil, gas or water. IHP 2418#, IFP 56# 20 Min. 56#, 30 Min. 70#, 40 Min. 85#, 50 Min. 66#, 86 Min. 85#, 90 Min. 85#, FHP 2418# and | DST #2 - Tested from 5066; to 5154', Paradox or Hr. Test, 4-1/2" DP, No Water Gushion, 3/4" Bim | opened tool, had a weak blow of All Limentances, recovered 50' tool for 90 Min. BHP. Pulled packers loose, recovered 50' drlg, mud, no show of oil, gas of water. IHP 2378#, IFP 2418. | Min. 1230# 70 Min. 1445#, 80 Min. 1545#, 90 Mi Bottom Hole Temp. 110 Deg. | N ATTACHED SHEET. | Services Services Services Services |
| SHNOZ SHOdod wo was seened | SUMPLY OF FORMS | FORMATION | 74 - DST #1 - Te | Min. HEP. Pull show of oil, 6 20 Min. 56#, | L - DST #2 - Te | Opened tool tool tool for 90 drlg, mid, | Min. 1230#, 70 Min. 14 Bottom Hole Temp. 110 | CONTINUED O | 28.30 A |

12/1/64

等人物 石油

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. . .

Ped. #14-20-0503-8063, Navajo Tract #91 Well #1, Sec. 7-T39N-R24E, Apache County, Arisona

12/6/64 - DST #3 - Tested from 5445' to 5520', Hississippian Zone, 1-1/2 Hr. Test, 4-1/2" DP, No Water Cushion, 3/4" Btm. & 1" Top Opening In Tool. Opened tool, had a weak blow of air immediately and died in 30 Min.. Closed tool for 90 Min. EHP. Pulled packers loose, recovered 40' (.24 Bbls.) of drlg. mid, no show of oil, gas or water. IHP 2622#, IFP 29#, FFP 29#, 90 Min. EHP 103# and FMP 2608#. Bottom Role Temp. 115 Deg..

12/12/64 - DST #4 - Tested from 6040' to 6133', HcCraken Zone, 4 Hr. Test, 4-1/2" DP, No Water Cushion, 3/4" Btm. & 1" Top Opening In Tool. Opened tool, had a good blow of air immediately and continued for 4 hrs., decreased to a weak blow. Closed tool for 90 Min. HHP.. Pulled packers loose, recovered 90' (1 Bbl.) slightly salt water cut drlg. mud, 3845' (60 Bbls.) salt water. Color of mud gradually clearing up to almost clear. No show of oil, or gas. IHP 2894#, IFP 54#, FFP 1787#, 90 Min. HHP 2002# and FHP 2881#.

12/20/64 - PLUGGING REPORT

6573' Total Depth:

Cement plugs spotted in well as follows:

Spotted 30' plug in top of 9-5/8" Surface Casing.

Hole has heavy rotary mud between plugs.

Cement 4" Federal Dry Hole Marker in top of 9-5/8" surface casing.

WELL WAS PLUGGED AND ABANOMED 12/20/64



CANFIDENTAL

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12/20/44 - 11/202750 301/20

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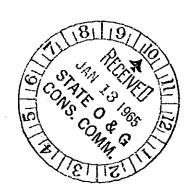
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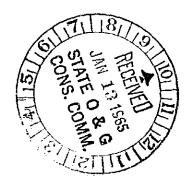
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AMERADA PETROLEUM CORPORATION P. O. BOX 1469 DURANGO, COLORADO

January 9, 1965

PHONE CH 7-5353-54

Mr. John Bannister Oil & Gas Conservation Commission Room 202 1624 West Adams Phoenix, Arizona



Dear Sir:

We are listing below the EC Deviation Straight Hole Tests run on Amerada's Navajo Tract #91 Well #1, located in the SE/SE of Sec. 7, T-39N, R-24E, Apache County, Arizona.

The subject well was spudded 11/10/64 and drilled by Rowan Drilling Company to a total depth of 6573'. Well was plugged and abanoned 12/20/64.

EC DEVIATIONS

| Depth | Degrees | Depth | Degrees | Depth | Degrees | Depth | Degrees | Depth | Degrees Depth | Degrees |
|-------|---------------|--------|---------|-------|---------|-------|-------------------|-------|---------------|----------------|
| 401 | 1/2 | 14251 | 1 | 174' | 1/2 | 47321 | 3 | 53001 | 4-3/4 59691 | 4-1/4 |
| 146' | $\frac{1}{2}$ | 1614' | ī | 3317' | 1/2 | 47941 | 3-1/2 | 53501 | 4-3/4 60591 | 4-1/2 |
| | | 1801' | 3/4 | 35251 | 3/4 | 48881 | 3-3/4 | 53751 | 4-3/4 6120 | 4-3/4 |
| 2381 | 1/2 | | | 38301 | 3/4 | 48741 | 3-3/4 | 54441 | 4-1/4 61501 | 5 |
| 351' | 1/2 | 20181 | 1/4 | | 3/4 | 49401 | 3-3/4 | 55151 | 4-3/4 62141 | 4-3/4 |
| 4431 | 1/4 | 22331 | 1/4 | 3992 | | 49671 | ノーン/ 4 | 5601 | 3-3/4 63061 | 4-3/4 |
| 5691 | 1/2 | 24481 | 1/2 | 42651 | 3/4 | | 2 2/1 | 56601 | 3-3/4 6429 | 5-1/2 |
| 6621 | 3/4 | ا 2509 | 1, | 43901 | 3/4 | 50201 | 3-3/4 | - | | • |
| 1008 | 1 | 26901 | 3/4 | 44851 | 1-3/4 | 50701 | 4 | 57241 | 3-1/4 64951 | 5-3/4 r 3/2 |
| 9991 | 1/4 | 2815 | 3/4 | 46091 | 2 . | 51351 | 4 | 58401 | 3-1/2 65221 | 5-1/2 |
| 12141 | 1/2 | 30201 | 3/4 | 46851 | 2-1/2 | 52521 | 4-1/2 | 59401 | 4-1/4 65551 | 5-1/2 |

This is to certify that the the above deviations were run by drillers of Rowan Drilling Company on the subject well, and are true and correct to the best of my knowledge and belief.

C. C. Murphy
Amerada Petroleum Corporation

Subscribed and sworn to before me a Notary Public in and for said County of La Plata, in the State of Colorado.

11th day of Jaunary, 1965

My Commission expires September 14, 1968. Tida Kashah Soncer

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|---------------------------------------|--|--|
| Form 9-331 (May 1963) | NITED STATES SUBMIT IN 1 LICA DEPARTMENT OF THE INTERIOR verse side) | |
| | GEOLOGICAL SURVEY | Fed. #14-20-0603-8063 |
| SL (Do not use t | INDRY NOTICES AND REPORTS ON WELLS his form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.) | Navajo |
| 1. | | 7. UNIT AGREEMENT NAME |
| WELL GAS | 11.00.00.00 | S. FARM OR LEASE NAME |
| 2. NAME OF OPERATO: | | Nevajo Tract #91 |
| Amerada Po | troleum Corporation | 9. WELL NO. |
| Box 1469. | Durango, Colorado | 1 |
| 4. LOCATION OF WELL See also space 17 | . (Report location clearly and in accordance with any State requirements." | 10. FIELD AND POOL, OR WILDCAT |
| At surface | tthe may a company of the continue of the cont | 11. SEC., T., E., M., OR BLK, AND |
| | 660' FEL, Center of SEt of SEt of Section 7, T-3 che County, Arizona. | Sec. 7, 39N, 24E, |
| 14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RI, GR, etc.) | 12. COUNTY OR PARISH 13. STATE |
| Aris. Pers | uit No. 297 GR 5185', DF 5194' & KB 5195' | Apache Arizona |
| 16. | Check Appropriate Box To Indicate Nature of Notice, Report, | , or Other Data |
| | NOTICE OF INTENTION TO: | UBSEQUENT REPORT OF: |
| TEST WATER SH | CT-OFF PULL OR ALTER CASING WATER SHUT-OFP | REPAIRING WELL |
| FRACTURE TREAT | \ [| |
| SHOOT OR ACIDIA | | ARANDONMENT* |
| REPAIR WELL (Other) | CHANGE PLANS (Other) (Note: Report | results of multiple completion on Well tecompletion Report and Log form.) |
| 12/20/64 - | 6573: Total Depth: Plugged And Abandoned. | |
| | Cement pluga spotted in well as follows: | 181/10 |
| | 35 mr. cement from 6160' to 6060' - 100' Plug | 6 0 2 |
| | 35 " " 5449' " 5349' - 100' " " 35 " " 100' " | 384 BYE |
| | 35 " " # 4013' " 3913' - 100' " 55 " " 1987' " 1837' - 150' " | 当るだ。看上 |
| | 35 " " 873: " 773: - 100: " | 3 3 3 |
| | Spotted 301 plug in top of 9-5/8" Surface Casing | |
| | Hole has heavy rotary and between plugs. Spotted a plug 50' above and 50' below where 9-5 | /8" cag. is set. |
| | We will fill pits. level location and install Fe | deral Dry Hole Harker as soo |
| | as rig is moved off of location. We will file lo | gs as soon as received from |
| | | |
| | | |
| 18. I hereby certif | y that the foregoing is true and correct | |
| SIGNED E | Munghy TITLE Field Clerk | DATE 12/21/64 |
| (This space fo | r Federal or State office uses | |
| APPROVED B CONDITIONS | Y TITLEOF APPROVAL, IF ANY: | DATE |
| 272722007012 | | |

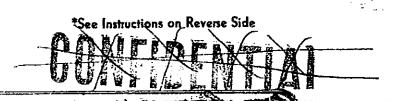
*See Instructions on Reverse Side

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| Form 9-331 (May 1963) | NITED STA | ATES SUBMIT IN A LICATE. (Other instructions on reverse side) | Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO. |
|--|---|--|---|
| | GEOLOGICAL | SURVEY | Fed. #14-20-0603-8063 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| | SUNDRY NOTICES AND F | REPORTS ON WELLS | 6. IF INDIAN, ALLOTTEE VA TELLE |
| (Do not u | se this form for proposals to drill or to d | leepen or plug back to a different reservoir. IT—" for such proposals.) | Nava to Vilet |
| <u>. </u> | Ost All I Montage | | 7. UNIT AGREEMENT NAME |
| | WELL OTHER WILCOL | | |
| 2. NAME OF OPER | MATOR | | S. FARM OR LEASE NAME |
| | Petroleum Corporation | | Navajo Tract #91 |
| 3. ADDRESS OF O | | | 1 |
| 4. LOCATION OF See also space | Durango, Colorado WELL (Report location clearly and in accor 17 below.) | dance with any State requirements.* | 10. FIELD AND POOL, OR WILDCAT |
| At surface | • | ul as cul as Sociion 7 Tank. | 11. SEC., T., B., M., OR BLK. AND |
| 660° FSI | & 660' FEL, Center of Si | Et of SEt of Section 7, T-39N, | Sec. 7, 39N, 24E, |
| K-Rights F | Apache County, Arizona. | | Greasespod Flat Area. |
| 14. PERMIT NO. | 15. ELEVATIONS | (Show whether DF, RT, GR, etc.) | 12. COUNTY OR PARISH 13. STATE |
| Ariz. Po | ermait No. 297 GR 5185 | 1, DF 51941 & KB 51951 | Apache Arizona |
| 16. | Check Appropriate Box | To Indicate Nature of Notice, Report, or | Other Data |
| - | NOTICE OF INTENTION TO: | | QUENT EEPORT OF: |
| TEST WATES | SHUT-OFF PULL OR ALTER CA | SING WATER SHUT-OFF | REPAIRING WELL |
| FRACTURE T | | | ALTERING CASING |
| SHOOT OR A | CIDIZE ABANDON* | SHOOTING OR ACIDIZING | ABANDONMENT* |
| REPAIR WEI | L CHANGE PLANS | (Other)(NOTE: Report resul | ts of multiple completion on Well |
| (Other) | (0) | state all pertinent details, and give pertinent date e subsurface locations and measured and true vert | apletion Report and Log form.) |
| 12/18/64 | follows: | to plug and abandon and spot to 6133' - 38 sacks of cement # 5440' - 38 | |
| | top of 9-5/8" surface rotary mad between pl | ove and 50' below where 9-5/8" casing with 10 sacks of cemer ugs. Will install Federal Dry 1 cover water zone in McCraker y corrections that are necessary over zones. | Hole Harker and abandon Formation: After we run |
| | | | |
| | | | |
| 18. I hereby c | ertify that the foregoing is true and corre | ect | |
| SIGNED _ | 1) FTMIRE | TITLE FOREMAN | DATE 12/18/64 |
| (This spac | ce for Federal or State office use) | | |
| APPROVE | D BY | _ TITLE | DATE |
| CONDITIO | ONS OF APPROVAL, IF ANY: | | 그는 사람들은 사람들이 가득했다. |
| | | | |

*See Instructions on Reverse Side

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|-----------------------------------|---|---|--|--|
| Form 9-331 | (| JNITED STATES | SUBMIT IN IPLICATES | Punger Putegn 140: 12 117121. |
| (May 1963) | DEPAR | MENT OF THE INTER | OR verse side) | P. LEASE DESIGNATION AND BELLED NO. |
| | | GEOLOGICAL SURVEY | | Fed. \$14-20-0603-8063 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| S | UNDRY NO | TICES AND REPORTS | ON WELLS | G. IF INDIAN, ALLOTTED OR THE DE |
| (Do not use | this form for prop | osals to drill or to deepen or plug CATION FOR PERMIT—" for such | back to a different reservoir. proposals.) | Navajo |
| | Use APPLI | CATION FOR I ENSITE TO SEE | , | 7. UNIT AGREEMENT NAME |
| OIL GA | S C OTHER | Wildcat | | |
| NAME OF OPERAT | | | | 8. FARM OR LEASE NAME |
| Amerada Petr | rolaum Corpo | ration | | Havajo Tract #91 |
| ADDRESS OF OPE | | | | 9. WELL NO. |
| Box 1469, D | rango, Colo | rado | - Ca- to | 10. FIELD AND POOL, OR WILDCAT |
| See also space 1 | :LL (Report location 17 below.) | clearly and in accordance with an | 3 State tedutiements. | Wildcat |
| 660 FSL & | 660' FEL, C | enter of BEZ of SEZ o | f Section 7, T-39N, | 11. SEC., T., R., M., OR BLE. AND |
| R-24E, Apaci | | | | Geo. 7, 39N, 24K, |
| | | | | Preasewood Flat Area. |
| 14. PERMIT NO. | | 15. ELEVATIONS (Show whether | | 12. COUNTY OR PARISH 13. STATE |
| Ariz. Permi | t No. 297 | OR 5185', DF 5194' | & KB 51951 | Apache Arizona |
| 16. | Check | Appropriate Box To Indicate | Nature of Notice, Report, or | Other Data |
| | NOTICE OF IN | • • | | QUENT REFORT OF: |
| | | | j | REPAIRING WELL |
| TEST WATER S | T | PULL OR ALTER CASING | WATER SHUT-OFF FRACTURE TREATMENT | ALTERING CASING |
| FRACTURE TRE | | MULTIPLE COMPLETE ABANDON* | SHOOTING OR ACIDIZING | ABANDONMENT* |
| SHOOT OR ACH REPAIR WELL | | CHANGE PLAYS | (Other) Drill Stea | Test #3 & 4 |
| (Other) | 11 | [] | (Note: Report resu Completion or Recor | its of multiple completion on Well appletion Report and Log form.) |
| proposed we next to this 12/6/64. | ork. If well is dir work.)* | 45' to 5520', Hissis | sippian Zone, 1-1/2 K | es, including estimated date of starting anytical depths for all markers and zones perti- |
| Hat | er Cumion, | 3/4" Btm. & 1" Top | Opening In Tool. Open | ed tool, had a weak blow |
| of | air immedia | tely and died in 30 | Min. Closed tool for | yu min. Bhr. Pulled |
| pac | Kers 100 ms | , recovered 40° (<44. | . con serio io (estoc | no show of oil, gas or d 26085 FHF. Bottom Hole |
| | np. 115 Deg. | | , to utile the role of | With a populari trans |
| 7.403 | man are make | • | | |
| 12/12/64 | | | | |
| 3/4 and Pui 38/ | 4" Btm. & 1" d continued lled packer: 45° (60 Bbl: | * Top Opening In Tool for 4 hrs., decrease s loose, recovered 90 s.) salt water. Color | . Opened tool, had a d to a weak blow. Clo ' (1 Bbl.) slightly a of mad gradually cla | 4-1/2" DP; No Water Cushion good blow of air immediate sed tool for 90 Kin. BHP. alt water out drig. mid, aring up to almost clear. O His. BHP 2002# and PHP |
| | 81#. | | | |
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| | | | | (2) 対力で対応した品の資金を含めている。 |
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| 18. I hereby cart | tify that the forego | ling is true and correct | | |
| | | Murchy TITLE | Field Clork | DATE 12/17/64 |
| SIGNED | | | | |
| (This space | for Federal or Sta | te office use) | | |
| APPROVED | BY | TITLE . | | DATE |
| | S OF APPROVAL | | | |



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| DEPARTMENT OF THE INTERIOR (Other instructions on reverse side) GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.) T. INIT AGREEMENT NAME | | | | | CONF | IDENT | ГІЛІ |
|--|---|--|--|---|--|---|---|
| DEPARTMENT OF THE INTERIOR forms added GEOLOGICAL SURVEY SUNDRY NOTICES AND REPORTS ON WELLS SUNDRY NOTICES AND REPORTS ON WELLS (those the this time function of the security of the properties of the propert | Form 9-331 | ę. | | | Other descriptions on w | A Dauget Du | |
| SUNDRY NOTICES AND REPORTS ON WELLS 100 not use this form for proceeding of odd or in decree or play back to a different reservoir. 101 | (May 1963) | DEPART | MENT OF THE I | NTERIOR \ | erse side) | 5. LEASE DESIGNATIO | |
| SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proceeds) define to develop or type back to a different reservate. (W. APPLICATION FOR FEMALET—for such proposeds.) (W. ALLE OF OFFICIAL OF THE MILE OF SEA | | | GEOLOGICAL SUR | EVEY | | | |
| OTTO OTTO STATE OTTO STATE OTTO STATE CANNO STATE CANNO WHITE CANNO STATE OF INTERIOR CANNO STATE OF INTERIOR CANNO STATE CANN | (Do not use thi | NDRY NO | TICES AND REPO | ORTS ON \ or plug back to for such proposals | WELLS a different reservoir. | | |
| ARTORAGE POPULIONS COPPORATION A ADDRESS OF OFFICE AND AND ACTOR AND AND ACTOR ACTOR AND ACTOR ACTO | 1. | | | | | | NAME |
| AMERICA POTENTIAL AMERICA POTEN | WELL WELL | OTHER ! | Wildcat | | | S FARM OR LEASE 3 | AME |
| Notice of States of States | | Lauren Commo | met fan | | | 1 · | |
| 4. MORATON OF WELL (Report location clearly and in accordance with any State requirements.* 56.01 FSI. & 6601 FSI. & 6601 FSI. (enter of SEt of SEt of SEt of Section 7, 7-398, R-241. Apache County, Arisona. 14. FERMIT NO. 15. ELEVATORS (Show whether of, RI. Cs. etc.) 14. FERMIT NO. 15. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTERTION TO: 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTERTION TO: 16. WATER SHUTCHEF THE ATTERNANT OF ALTER CANNO NOTICE OF INTERTION TO: 17. PERMIT WATER SHUTCHEF THE ATTERNANT OF ALTER CANNO REPAIR WALL (Other) 17. DECEMBER OF SET OF ACTION Clearly state all pertinent details, and give pertinent dates, industry details, and sive pertinent dates, industry details and sive pertinent dates, industry details of a maximum perposes, work, if well in directionally diffice, are absorbed beauting and exercised pertinent dates industry details work). 11/30/64. 15. Tested from 4952' to 5031', Paradox Zone, 1 Hr. & 15 Nin. Test, 4-1/2" DP, No heater Cushion, 3/4" Blue. & 1-1/6" Top Opening In Tool. Opened tool, had a very weak blow of air and died in 15 Min. Closed tool for 90 Min. EMP. Fulled packers loose, recovered 20' (.12 Eblas.) of drig. mad, no show of oil, gas or water. IN 24.16% IPP 56%, FFP 56%, 10 Min. EMP 56%, 20 Min. 56%, 30 Min. 70%, 40 Min. 85%, 50 Min. 85%, 50 Min. 85%, FPP 24.16% and Bottom Hole Temp. 117 Deg. 10/1/64. 10ST #2 - Tested from 5066' to 5154', Paradox or Lower Hermosa Zone, 1-1/2 Hr. Test, 4-1/2 DP, No Mater Cushion, 3/4" Blue. & 1" Top Opening In Tool. Opened tool, had a very water blue packers loose, recovered 50' (.31 Eblas.) of drig. mad, no show of oil, gas or water. INP 2378%, FPP 29%, FPP 29%, 10 Min. 85%, 50 Min. 1545%, 90 Min. 1545%, 90 Min. 1616%, FHF 2378% and Bottom Hole Temp. 117 Deg 15. I hereby certify that the foregoing is true and correct. (This space for Federal or State office form) APPROVED BY | | | 1001011 | | | | 87- |
| ACT OF SEL & 660' FEL, Center of SEL of Section 7, T-39N, R-2AL, Apache County, Arisona. R-2AL, Apache County, Arisona. IL PERMIT SO. IL P | Box 1469, Dura | ungo, Colo | rado | , | | 1 | |
| 14. PERMIT NO. 14. PERMIT NO. 15. ELEVATIONS (Show whether Dr. ET. Cs. etc.) 14. PERMIT NO. 16. Check Appropriate Box To indicate Nature of Notice, Report, or Other Data NOTICE OF INVESTION TO: NOTICE OF INVESTION TESTION TO: NOTICE OF INVESTION TESTION TESTION TESTION TESTION TESTION TES | 4. LOCATION OF WELL See also space 17 h | (Report location elow.) | clearly and in accordance | with any State | requirements.• | Wildest | |
| 14. PRIMIT NO. Aris. Permit No. 297 15. S185', DF 5194' & KB 5195' 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of Internation To: Vello & Alter Canno Notice of Internation To: Vello & Internation To: Vell | | | | SEt of Sec | tion 7, T-39N, | ec. 7. 39N | 245, |
| Aria. Permit No. 297 IR 5185*, DF 5194* & RB 5195* Apache Arizona Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of inversion to: Test water sheaper of permitted of Notice of Notice, Report, or Other Data Notice of inversion to: Test water sheaper of permitted of Notice of Notice of Notice, Report, or Other Data Report of Activities (Casho Francisco Water Sheapers of Sheapers of Notice of Notice of Notice of Activities of Notice of Activities of Notice | 14 PERMIT NO. | | 15, ELEVATIONS (Show | whether Dr. RT, Gr | t, etc.) | | |
| Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of Invention to: TEST WATER SHUF-OFF PRACTURE THEAT SHOOT OF ACIDIES PELL OR ALTER CASING ARABOON* | | No. 297 | 1 - | | | Apache | Arisona |
| TEST WATER SHUT-OFF FRACTURE THEAT SHOOT OF ACHDING MULTIPLE COMPLETE PRACTURE THEAT SHOOT OF ACHDING SHOOTING OR ACHDING ON THE SHORT OF REATHERS (Other) 17. DESCRIBE PROPOSED OR COMPLETED OFFRATIONS (Clearly state all pertinent details, and give pertinent described Report and the state of stating any ment to his work). 11/30/64 DST #1 - Tested from 4952' to 5031', Paradox Zone, 1 Hr. & 15 Min. Test, 4-1/2" BP, No water Cushion, 3/4" Btm. & 1-1/8" Top Opening In Tool. Opened tool, had a very weak blow of air and died in 15 Min. Closed tool for 90 Min. BHP. Fulled packers loose, recovered 20' (.12 Bbls.) of drlg, mad, no show of oil, gas or water. HP 22186, IFP 568, FFP 568, 10 Min. BHP 568, 20 Min. 568, 30 Min. 70%, 40 Min. 858, 50 Min. 858; 60 Min. 858; 60 Min. 858, 70 Min. 858, 90 Min. 858, FFP 569. No water Cushion, 3/4" Btm. & 1" Top Opening In Tool. Opened tool, had a weak blow of air immediately and died in 30 Min. Closed tool for 90 Min. BHP. Pulled packers loose, recovered 50' (.31 Bbls.) of drlg. mad, no show of oil, gas or water. HP 23788, IFP 298, FFP 569, 10 Min. BHP 1766, 20 Min. BHP. Pulled packers loose, recovered 50' (.31 Bbls.) of drlg. mad, no show of oil, gas or water. HP 23788, IFP 298, FFP 298, 10 Min. BHP 1766, 20 Min. 14458, 30 Min. 15458, 90 Min. 10584, 60 Min. 12304, 70 Min. 14458, 30 Min. 15458, 90 Min. 16188, FHP 23788 and Bottom Hole Temp. 110 Deg TITLE Field Clerk | | | | | | Other Data | ······································ |
| TEST WATER SHUT-OFF FRACTURE TREAT SHOT OR ACIDITE SHOT OR ACI | 10. | | | naicaie i vaiure | | | |
| PRACTURE TREAT MELL COMPLETE ARANDON' REPAIR WELL (Other) 17. DESCRIPE PROPOSED OF COMPLETE OF PRANTON (Clearly state all pertanent details, and give pertinent datas, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertinent to this work.)* 11. DESCRIPE PROPOSED OF COMPLETE OF PRANTON (Clearly state all pertanent details, and give pertinent datas, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and sones pertinent to this work.)* 11. 30/64. BST #1 - Tested from 4952' to 5031', Paradox Zone, 1 Hr. & 15 Min. Test, 4-1/2" DP, No kater Cushion, 3/4" Btin. & 1-1/6" Top Opening In Tool. Opened tool, had a very weak blow of air and died in 15 Min Closed tool for 90 Min. BHP. Fulled packers loose, recovered 20 (-1.2 Bbls.) of drig. mad, no show of oil, gas or water. BHP 2418% and Bottom Hole Temp. 117 Deg 12/1/64. DST #2 - Tested from 5066' to 5154', Paradox or Lower Hermosa Zone, 1-1/2 Hr. Test, 4-1/2 DP, No Water Cushion, 3/4" Btin. & 1" Top Opening In Tool. Opened tool, had a weak blow of air immediately and died in 30 Min. Closed tool for 90 Min. BHP. Pulled packers loose, recovered 50' (-31 Bbls.) of drig. mid., no show of oil, gas or water. BHP 2376%, IFP 29%, FFP 29%, 10 Min. BHP 176%, 20 Min. 500%, 30 Min. 700%, 40 Min. 872%, 50 Min. 1058%, 60 Min. 1230%, 70 Min. 1445%, 80 Min. 1545%, 90 Min. 1618%, FHP 2378% and Bottom Hole Temp. 110 Deg 18. I hereby certify that the foregoing is true and corpect Stone for Federal or State office pice) Title Field Clerk Title Paradox or Federal or State office pice) | | <u></u> | | | | | SG WELL |
| SHOOTING OR ACIDIER REPAIR WELL (Other) Drill Stem Tect #1 & 2 (Other) Note: Report results of multiple completion on Well (Other) Note: Report results of multiple completion on Well (Other) Note: Report and Report and Other form.) 17. Descented Proposed work. If well is directionally drilled, give adsaurace locations and measured and true vertical depths for all markers and more particular to this work.) 11/30/64 DST #1 - Tested from 4952' to 5031', Paradox Zone, 1 Hr. & 15 Kin. Test, 4-1/2" DP, No keter Cuchion, 3/4" Bta. & 1-1/8" Top Opening In Tool. Opened tool, had a very weak blow of air and died in 15 Kin Closed tool for 90 Min. BHP. Pulled packers loose, recovered 20' (.12 Bbls.) of drlg. mad, no show of oil, gas or water. BHP 2418#, IFP 56#, FFP 56#, 10 Kin. BHP 56#, 20 Min. 56#, 30 Min. 70#, 40 Min. 85#, 50 Min. 85#, 50 Min. 85#, 70 Min. 85#, 60 Min. 85#, 90 Min. 85#, FFF 56#, 10 Kin. 85#, 50 Min. 85#, 90 Min. 872#, 50 Min. 1058#, 60 Min. 1230#, 70 Min. 1445#, 80 Min. 1545#, 90 Min. 1618#, FHP 2378# and Bottom Hole Temp. 110 Deg | | r-off | | | | | |
| Other) Pull Stem Test #1 & x (Other) Pull Stem Test #1 & x (| | | | | SHOOTING OR ACIDIZING | ABANDON | · [|
| (Other) (Ot | | | | | (Other) Drill Ston | Test #1 & 2 | * |
| 17. DESCRIPT PROCESSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and gite pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) 11/30/64 DST #1 — Tested from 4952' to 5031', Paradox Zone, 1 Hr. & 15 Min. Test, 4-1/2" DP, No Water Cushion, 3/4" Bim. & 1-1/8" Top Opening In Tool. Opened tool, had a very weak blow of air and died in 15 Min Closed tool for 90 Min. BHP. Pulled packers loose, recovered 20' (.12 Bbls.) of drlg. mud, no show of oil, gas or water. HP 2418#, IFP 56#, FFF 56#, 10 Min. BHP 56#, 20 Min. 56#, 30 Min. 70#, 40 Min. 85#, 50 Min. 85#; 60 Min. 85#; 70 Min. 85#, 60 Min. 85#, 90 Min. 85#, FMP 2418# and Bottom Hole Temp. 117 Deg 12/1/64 DST #2 — Tested from 5066' to 5154', Paradox or Lower Hermosa Zone, 1-1/2 Hr. Test, 4-1/2 DP, No Water Cushion, 3/4" Bim. & 1" Top Opening In Tool. Opened tool, had a weak blow of air immediately and died in 30 Min. Closed tool for 90 Min. BHP. Pulled packers loose, recovered 50' (.31 Bbls.) of drlg. mid, no show of oil, gas or water. IMP 2378#, IFF 29#, FFF 29#, 10 Min. BHP 176#, 20 Min. 500#, 30 Min. 700#, 40 Min. 872#, 50 Min. 1058#, 60 Min. 1230#, 70 Min. 1445#, 80 Min. 1545#, 90 Min. 1618#, FHP 2378# and Bottom Hole Temp. 110 Deg TITLE Field Clerk (This space for Federal or State office pine) APPHOVED BY. TITLE Field Clerk TITLE Field Clerk DATE | | لـــا | • | | (Nove Report res | ults of multiple completi | on on Well g form.) |
| BST #1 - Tested from 4952' to 5031', Paradox Zone, 1 Hr. & 15 Nine Test, 4-1/2" BP, No Nater Cushion, 3/4" Bim. & 1-1/8" Top Opening In Tool. Opened tool, had a very weak blow of air and died in 15 Nine. Closed tool for 90 Min. BHP. Pulled packers loose, recovered 20' (.12 Bbls.) of drig. mud, no show of oil, gas or water. BHP 2418#, IFP 56#, FFP 56#, 10 Nin. BHP 56#, 20 Min. 56#, 30 Min. 70#, 40 Min. 85#, 50 Min. 85#, 60 Min. 85#, 70 Min. 85#, 80 Min. 85#, 90 Min. 85#, FHP 2418# and Bottom Hole Temp. 117 Deg 12/1/64. DST #2 - Tested from 5066' to 5154', Paradox or Lower Hermosa Zone, 1-1/2 Hr. Test, 4-1/2 DP, No Water Cushion, 3/4" Bim. & 1" Top Opening In Tool. Opened tool, had a usak blow of air immediately and died in 30 Min. Closed tool for 90 Min. BHP. Pulled packers loose, recovered 50' (.31 Bbls.) of drig. mid., no show of oil, gas or water. BHP 2378#, IFP 29#, FFP 29#, 10 Min. BHP 176#, 20 Min. 500#, 30 Min. 700#, 40 Min. 872#, 50 Min. 1058#, 60 Min. 1230#, 70 Min. 1445#, 80 Min. 1545#, 90 Min. 1618#, FHF 2378# and Rottom Hole Temp. 110 Deg | 17. DESCRIBE PROPOSEI proposed work. nent to this wor | OR COMPLETED (If well is dire k.) * | operations (Clearly state ectionally drilled, give subs | nil pertinent deta surface locations | nils, and give pertinent da and measured and true ver | tes, including estimated rtical depths for all man | date of starting any kers and zones perti- |
| DET #2 - Tested from 5066' to 5154', Paradox or Lower Hermosa Zone, 1-1/2 Hr. Test, 4-1/2 DP, No Water Cushion, 3/4" Btm. & 1" Top Opening In Tool. Opened tool, had a week blow of air immediately and died in 30 Min. Closed tool for 90 Min. BHP. Pulled packers loose, recovered 50' (.31 Bbls.) of drlg. mid. no show of oil, gas or water. IHP 2378#, IFF 29#, FFF 29#, 10 Min. BHP 176#, 20 Min. 500#, 30 Min. 700#, 40 Min. 872#, 50 Min. 1058#, 60 Min. 1230#, 70 Min. 1445#, 80 Min. 1545#, 90 Min. 1618#, FHP 2378# and Bottom Hole Temp. 110 Deg 18. I hereby certify that the foregoing is true and correct SIGNED TITLE Field Clerk (This space for Federal or State office pise) APPROVED BY TITLE TITLE TITLE DATE DATE | DST #1 - Test Water weal pack water 40 1 | er Cushion t blow of cers loose er. IHP 24 Min. 85#, | , 3/4" Btm. & 1- air and died in , recovered 20' 18#, IPP 56#, P 50 Kim. 85#; 60 | -1/8" Top 15 Min (.12 Bbls FP 56#, 10 Mini:85#; | Opening In Tool Closed tool for .) of drlg. mud Min. BHP 56#, 2 370 Min. 85#, 80 | . Opened tool, 90 Min. EHP. I , no show of oi 20 Min. 56#, 30 | had a very ulled 1, gas or Hin, 70#, |
| SIGNED TITLE Field Clerk (This space for Federal or State office piec) APPROVED BY TITLE Field Clerk DATE 12/5/64 | DST #2 - Tes DP, west Pul or 700 | No Water k blow of led packer water. IHi #. 40 Min. | Cushion, 3/4" B air immediately re loose, recover P 2376#, IFP 29# . 872#, 50 Min. | tm. & 1" T r and died pred 50° (. f, FFP 29#, 1058#, 60 | op Opening In T in 30 Min. Clos 31 Bbls.) of dr 10 Min. BHP 17 Min. 1230#, 70 | ool. Opened to: ed tool for 90 lg. mid. no sh 6#, 20 Min. 50 Min. 1445#, 80 | hin. BHP. or of oil, gas Of, 30 Min. |
| SIGNED TITLE Field Clerk (This space for Federal or State office piec) APPROVED BY TITLE Field Clerk DATE 12/5/64 | | | | | | · · · · · · · · · · · · · · · · · · · | |
| (This space for Federal or State office piec) APPROVED BY TITLE TITLE DATE DATE | 18. I hereby certify | that the foregol | | | | | -1-11: |
| APPROVED BY TITLE | SIGNED | <u> </u> | Thursty | TITLE Field | d Clerk | DATE | 2/5/64 |
| APPROVED BY TITLE | (This space for | Federal or Stat | e office prise) | | | | |
| | • | | . // | mint r | | ATTLE STORES | |
| | CONDITIONS O | F APPROVAL, | | 414UM | | | |

*See Instructions on Reverse Side

U. S. PERLOGICAL SURVEY FRALMER COM. H. al.

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General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Rederal and Indian lands pursuant to applicable. Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable. Federal instructions concerning the use of this form and the number of copies to be submitted, inreficularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

frements, locations on Vederal or Indian land should be described in accordance with Vederal requirements. Consult local Item 4: If there are no applicable State, requestate or Federal office for specific instructions.

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| Form 9-331 (May 1963) | DEDARTA | .iTED STATES NENT OF THE INTER | SUBMIT IN THE ICATE* (Other instructions on re- | Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO. |
| | | SEOLOGICAL SURVEY | (IOI(Telse blue) | Fed. #14-20-0603-8063 |
| S (Do not use | UNDRY NOT | CES AND REPORTS als to drill or to deepen or plug TION FOR PERMIT—" for such | ON WELLS g back to a different reservoir. proposals.) | Navajo 7. Unit agreement name |
| OIL GAN | LL OTHER | Wildcat | | 8. FARM OR LEASE NAME |
| Amerada Pet | roleum Corpo | ration | | Navajo Tract #91 |
| 3. ADDRESS OF OPE | RATOR | | | 1 |
| See also space 1 At surface 660' FSL & | 7 below.) | rado learly and in accordance with an enter of SEt of SEt trisona. | of Section 7, T-39H, | 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC. T. R. M., OR BLE. AND SURVEY OR AREA Sec. 7, 39N, 24E, Greatwood Flat Area. |
| 14. PERMIT NO. | | 15. ELEVATIONS (Show whether | DF, BT, GR, etc.) | 12. COUNTY OR PARISH 13. STATE |
| Arizona Per | mit No. 297 | | 4' & KB 5195' | Apache Arizona |
| 16. | Check A | ppropriate Box To Indicate | : Nature of Notice, Report, or (| Other Data |
| | NOTICE OF INTE | NTION TO: | SUBSEC | WENT REPORT OF: |
| TEST WATER S PRACTURE TRES SHOOT OB ACID REPAIR WELL (Other) | IZE | PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS | (Note: Report result Completion or Recom | REPAIRING WELL ALTERING CASING ABANDONMENT* If OD Gag. Is of multiple completion on Well pletion Report and Log form.) Is, including estimated date of starting any and depths for all markers and zones perti- |
| proposed wor | rk. It well is direct sork.) * | ionally drilled, give subsurface 1 1/4 ⁿ hole @ 7:15 AM | DEBUGG HIM MCHONIEG GIG 1140 1 | cal depths for all markers and zones perti- |
| 11/11/64 - | Ran 26 Jts. W/Baker Gui 9 750'. | 9-5/8" OD 32.30# 8 de Shoe on bottom @ | -RT H-40 R-2 SS Cag. S 823', (1) Centralizer | TLC New, Set @ 823', 8 817' and (1) Centraliz |
| | BJ Service, C.C Pumpe Circulated. | d plug to 800' w/7: | 5/8" OD Cag. w/400 sack 50# Pump Press. @ 5:30 | es of regular cement w/2% PM, 11/11/64. Cement |
| 11/12/64 - | - Tested 9-5/ | 8" OD 0 sg. w/1700 # | Press 30 Minutes - | Held OK. |
| | Drilling 6- | -3/4" hole. Drilling | g ahead. | 6 6 1 7 1 8 P |
| | | | | 3000 TO |
| | | is true and correct | Field Clerk | DATE 11/16/64 |
| signed <u>=</u> | | THE TITLE | CARAL VARIA | |
| | or Federal or State | | | DATE |
| APPROVED CONDITIONS | BYB OF APPROVAL, U | F ANY: | ······································ | |

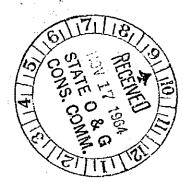
*See Instructions on Reverse Side

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CONFIDENTIAL

THIS WELL IS BEING DRILLED TIGHT

Navajo Tract #91 Well #1



| - * | | | | r= . | | | - | • |
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| Form 9-331 C (May 1963) | (HNIT | ED STATES | SUBMIT IN THE CONTROL OF SUBMIT IN THE CONTROL | CATE thous on de) | • For Budg | m approved get Bureau | i. No. 42-R | :1425. |
| | DEPARTMENT | | TERIOR | | 5. LEASE DE | SIGNATION | AND SERIAL | NO. |
| | | SICAL SURVEY | | | Fed. #1 | A-20-0 | 603-80 | 63 |
| A DDL (C A TIO) | | | EPEN, OR PLUG E | ACK | 6. IF INDIAN | | | |
| | N FOR PERMIT I | O DRILL, DE | ELETT, ON FEOU D | 7461 | Nava jo | <u> </u> | · . | |
| | ILL 🗷 | DEEPEN [| PLUG BA | CK 🗆 | 7. UNIT AGE | LEEMENT N | AME | |
| b. TIPE OF WELL | AS OTHER W | 11 dast | SINGLE MULTIP | LE _ | S. FARM OR | LEASE NAS | (E | |
| WELL W | YELL OTHER N. | TTGOOR | 20.18 🖳 20.12 | | Havajo | Tract | #91 | |
| | eum Corporation | | | | 9. WELL NO | | ا با دو د با دو | |
| 3. ADDRESS OF OPERATOR | ent corporation | | | | | 1 | | |
| Box 1469. Dura | ngo, Colorado | | | | 10. FIBLD A | - T | R WILDCAT | ! |
| 4. LOCATION OF WELL (I | Report location clearly and | in accordance with | any State requirements.*) | am 17 | Wildcat | | 9F.W | |
| 4 1060 m 20 m | SL & OOU' FEL, | Center of DE | it of SEt of Secti | on I | AND BU | BYET OR AF | REA | |
| At proposed prod. 20 | Apache County, | VI.T. | | | | , 39N, wood Fl | | . 23 |
| Projected to | AND DIRECTION FROM NEAR | BYIEN. | OFFICE® | | 12. COUNTY | | | |
| 14. DISTANCE IN MILES | AND DIRECTION SHOW THE | | | | Apache | | Arizo | ne. |
| 10. DISTANCE FEGM PRO | PUSED* | | 16. NO. OF ACRES IN LEASE | | OF ACRES ASS | | 7 7 A | |
| LOCATION TO NEARE PROPERTY OR LEASE | et Line, ft. | | 634 | | cat - To | be det | termine | 3d |
| Also to Bearest di | PIG. UNIT TIME, IT RUY) | <u> </u> - | 19. PROPOSED DEPTH | 20. ROT | TARY OR CABLE | TOOLS | 100 | |
| TO NEAREST WELL, OR APPLIED FOR, ON T | DRILLING, COMPLETED, | ł | 65001 | Rota | | <u> } </u> | | |
| | hether DF, RT, GR, etc.) | | | | 22. APPR | OX. DATE W | | START* |
| GR - 51861 | _ | | | | 11/ | 3/64 | 395 | |
| 23. | | PROPOSED CASIN | G AND CEMENTING PROGI | RAM : | | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FO | OT SETTING DEPTH | | QUANT | ITY OF CEME | 2NT | |
| 12-1/4" | 9-5/8" | 32.3# | 8001 | Suff | icient t | o Circ | ulate | <u></u> |
| | | | | _ | <u></u> | <u> </u> | | 2.7 |
| | | | | | | | 2 (1) ± 3 (4) 3 | 7. 5. 1. 1. 1. |
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| Blowout preve | nter program: | Voedirere es | rediffred. | 4 | | ** | | |
| | | | | Ä. | | 는 된 것입니다. 그 경험 | 1 (1 d) (1 d | |
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| | | | | | | | 작성함 설명함 | |
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| | | | • | | | | - 경상 및 및 구 - 최상 및 기상 | |
| | | | | | | - 3 ft | - Jan 1987 | |

SIGNED _

PERMIT NO.

APPRÔVED BY _

(.%

(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

Pield Clerk

DATE

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Items 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

UNITED STATES GERAR THENE OF THE INTERIOR

PECENED STATE O 1961 CONS. COMM.

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| APPLICATION | FOR PERMIT TO DRILL | ., DEEPEN, PLUG B | ACK, OR RE-ENTER | |
| APPLICATION T | O DRILL 😿 DEEPEN 🗋 | PLUG BACK 🖂 RE | ENTER OLD WELL | |
| AME OF COMPANY OR OPERATOR | Amerada Petroleum C | orporation | DATE 11/4/64 | |
| Box 1469, Durango, Color | | | State | |
| ldress | City | · | | |
| | DESCRIPTION. OF | WELL AND LEASE | | |
| ederal. State or Indian Lease Number | or name of lessor, if fee lease | Well number | Elevation (ground) | |
| Fed. #14-20-0603-8063 Fell location and acreage dedicated to the | ne well (give footage from sectio) | l #1 Section—to | 1 5186! ownship—range or block & surve | y |
| 660! FSL & 660! FEL, SE ¹ / ₄ | | | · · | |
| eld & reservoir (If wildcat, so state) | V. V. 4) | County | ,, | |
| Nildcat Istance, in miles, and direction from t | recept town or nost office | Apache | | |
| istance, in mues, and direction from | learest town or post office | | · | |
| earest distance from proposed location property or lease line: | a | Distance from proposed completed or applied-fo | location to nearest drilling, r well on the same lease: | |
| moperty of tours and | 660 feet | None | | feet |
| roposed depth: | Rotary or cable tools | | rox. date work will star: | |
| 65001 | Rotary | | 1/7/64 | |
| umber of acres in lease: | | Number of wells on leas completed in or drilling | e, including this well, to this reservoir: | |
| 634 | | None | | |
| lease, purchased with one or more relis drilled, from whom purchased: | Name | Ad | dress | |
| Filed \$10,000.00 Bond Remarks: (If this is an application to d | On file X Or attached | Has been filed | Filing Fee of \$25.00 Has by present | een filed |
| producing zone and expecte | d new producing zone) | | | - |
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| *Fill in Proposed Casing Program | on reverse side | | | |
| | | | | |
| CERTIFICATE: I, the undersigned, un | der the penalty of perjury, state | that I am theRep | resentative | of th |
| Amerade (Petroleum Cor | poration (company). | and that I am authorized b | y said company to make this repo | rt; and that thi |
| Orsport was prepared sinder my superv | ision and direction and that the f | acts stated therein are true, | correct and complete to the best of | f my knowledge |
| | | | In me | rben - |
| | | Signature | <u>- </u> | |
| 1900年日 | the same of the same of | A 11/4/64 | | |
| Contract of the second | | Date | | |
| | | | | |
| APILIE STATE | AN REPRESENTED | A AND TO THE | CTITE OF INTROLI | |
| Approval Date: | 10,1964 | OIL & GAS | STATE OF ARIZONA CONSERVATION COMMI | SSION |
| Approved By: | ganninter | 1 | to Drill, Deepen or Plug Back ar | |
| Notice: Before sending in this form | ı be sure that you have given Much unnecessary correspond | ı [| File Two Copies | |
| ence will thus be avoided. See Instruction on Reverse | | Form No. 3 | | |
| I DOD MISCINGUION ON INCIGER | | 1 . | | |

(Complete Reverse Side)

- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. All distances shown on the plat must be from the outer boundaries of the Section.
- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO
- 5. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES____NO_____ If answer is "yes," Type of Consolidation__
- 6. If the answer to question two is "no," list all the owners and their respective interests below:

| | | | | CERTIFICATION |
|---|--------------|-------------|----------|---|
| | | | | I hereby certify that the information above is true and complete to the best of my knowledge and belief. Name Field Clerk Position Amerada Petroleum Corp. Company 11/4/64 Date |
| | Section 7, 1 | -39N, R-24E | | |
| | - | | | I hereby certify that the well local tion shown on the plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true are correct to the best of my knowledge and belief. |
| () () () () () () () () () () | | | Q ← 660- | Date Surveyed |

| Size of Casing | Weight | Grade & Type | Тор | Bottom | Cementing Depths | Sacks Cement |
|----------------|--------|--------------|-----|--------|------------------|-------------------------|
| 9-5/8" | 32.30 | H-40 | 01 | 10001 | 0' to 1000' | Sufficient to Circulate |
| | | | | | | |

WELL LOCATION: Amerada Petroleum Corp - Navajo Tract # 91-1

Lacated 660 feet North of the South line and 660 feet West of the East line of Section 7,

Township 39 North, Range 24 East, Gila & Salt River Meridian,

Apache Co., Arizona

Existing ground elevation determined at 5186 feet based on adjoining well locations.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate

to the best of my knowledge and belief.

(,

FREDERICK H. REED
Registered Long Surveyor
State of Artzona 4 5313



AMERADA PETROLEUM CORP.

WELL LOCATION PLAT Sec. 7, T. 39 N., R. 24 E. Apache Co., Arizona

CLARK-REED & ASSOC. Durango , Colorado

DATE: Oct. 29,1964 FILE NO: 64077 ١.

STATE OF GOMM.

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| Bond | Comp | any <u>Ins</u> | urance (| Comp | any o | f North | Amer ămo u | int <u>\$10.00</u> | <u>)</u> 0 |
|------------|---------|----------------|--|---|---------------------------------------|--------------|-------------------|--------------------|------------|
| Bond | No. | 345659 | <u> </u> | | | Date | Approved | 10-19-64 | - |
| | : | Permits | covered | ъу | this | bond: | | | |
| | | | | | 297, | | | | |
| | | | | | 310 / | • | | | |
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Operator Amerada Petroleum Corporation

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POWER OF ATTORNEY

INSURANCE COMPANY OF NORTH AMERICA

PHILADELPHIA, PA.

Enow all men by these presents: That the INSURANCE COMPANY OF NORTH AMERICA, a corporation of the Commonwealth of Pennsylvania, having its principal office in the City of Philadelphia, Pennsylvania, pursuant to the following Resolution, which was adopted by the Board of Directors of the said Company on June 9, 1953, to wit:

"RESOLVED, pursuant to Articles 3.6 and 5.1 of the By-Laws, that the following Rules shall govern the execution for the Company of bonds, undertakings, recognizances, contracts and other writings in the nature thereof:

(1) "Such writings shall be signed by the President, a Vice President, an Assistant Vice President, a Resident Vice President or an Attorney-in-Fact.

(2) "Unless signed by an Attorney-in-Fact, such writings shall have the seal of the Company affixed thereto, duly attested by the Secretary, an Assistant Secretary or a Resident Assistant Secretary. When such writings are signed by an Attorney-in-Fact, he shall either affix an impression of the Company's seal or use some other generally accepted method of indicating use of a seal (as by writing the word "Seal" or the letters "L.S." after his signature).

(3) "Resident Vice Presidents, Resident Assistant Secretaries and Attorneys-in-Fact may be appointed by the President or any Vice President, with such limits on their authority to bind the Company as the appointing officer may see fit to

impose.

(4) "Such Resident Officers and Attorneys-in-Fact shall have authority to act as aforesaid, whether or not the President, the Secretary, or both, be absent or incapacitated; and shall also have authority to certify or verify copies of this Resolution, the By-Laws of the Company, and any afficiavit or record of the Company necessary to the discharge of their duties. (5) "Any such writing executed in accordance with these Rules shall be as binding upon the Company in any case as though signed by the President and attested by the Secretary."

does hereby nominate, constitute and appoint ROBERT R. LOCKWOOD, JR., E. H. LOCKWOOD and PHYLLIS M. JOHNSON, all of the City of Tulsa, State of Oklahoma, effective January 1, 1961,

its true and lawful agent and attorney -in-fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed any and all bonds and undertakings in penalities not exceeding ONE HUNDRED THOUSAND DOLLARS (\$100,000.00) each in its business of guaranteeing the fidelity of persons holding places of public or private trust, and in the performance of contracts other than insurance policies, and executing and guaranteeing bonds or other undertakings not exceeding ONE HUNDRED THOUSAND DOLLARS (\$100,000.00) each as aforesaid, required or permitted in all actions or proceedings or by law required or permitted.

All such bonds and undertakings as aforesaid to be signed for the Company. and the Seal of the Company attached thereto by any one of the said Robert R. Lockwood, Jr., E. H. Lockwood of Phyllis M. Johnson, Individually

And the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Philadelphia, Commonwealth of Pennsylvania, in their own proper persons.

IN WITNESS WHEREOF, the said R. H. PETEFISH , Vice-President, has hereunto subscribed his name and affixed the corporate seal of the said INSURANCE COMPANY OF NORTH AMERICA this 15th day of September 1960.

| ORTH AMERICA THE | INSURANCE COMPANY OF NORTH AMERICA |
|--|---|
| | by R. H. PETEFISH Vice-President |
| (SEAL) | Vice-President |
| STATE OF PENNSYLVANIA } COUNTY OF PHILADELPHIA \ 85. | - |
| On this 15th day of S Public of the Commonwealth of Pennsylvania, in and for | eptember |
| the preceding instrument, and he acknowledged the executhat he is the officer of the Company aforesaid, and that the Company, and the said corporate seal and his signature as | nown to be the individual and officer described in, and who executed ation of the same, and, being by me duly sworn, deposeth and saith ne seal affixed to the preceding instrument is the corporate seal of said officer were duly affixed and subscribed to the said instrument by the Resolution, adopted by the Board of Directors of said Company, re- |
| | set my hand and affixed my official seal at the City of Philadelphia |
| IN TESTIMON! WHEREOF, I have account the day and year first above written. | PAROL PERLACENT |
| (SEAI) | Notary Public. |

My commission expires July 15, 1962

I, the undersigned, Assistant Secretary of INSURANCE COMPANY OF NORTH AMERICA, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a full, true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate scal of the Corporation, this day of Assistant Secretary.

Assistant Secretary.

October 7, 1965

Amerada Patroleum Corporation 51 West 51 Street New York, New York 19019

Attention: Mr. V.A. Morgan, Assistant Tressurer

Re: Tasurance Company of Borth America Bond

Gentlement

As you are aware, the captioned bond in the amount of \$10,000 is on file with this Commission to cover bonding requirements of this Commission.

As a result of the public hearing hold September 22, 1965 in Phoenix, Arisona, concerning the Rules and Regurlations of this Commission, the bouding requirements have been increased to \$5,000 for a single well and to \$25,000 for a state-wide blanket bond.

An required by law, certified copy of the new Rules and Regulations was filed with the Secretary of State on October 1, 1965, and consequently the new Rules became effective on that data.

This letter is to request that at your earliest convenience you take the necessary steps to increase your state-wide houd to \$25,000. Upon receipt of your new bond your old hond of course may be released.

Your carliest cooperation will be appreciated.

Yours very truly,

John Bannister Executive Secretary

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November 22, 1965

Amerada Petrolaum Corporation P.O. Box 2040 Tulsa 2, Oklahoma

Attention: Mr. R.M. Patterson

Re: Insurance Company of North America Bond 345659

Amerada Petroleum Corp. #1 Ravajo well 8E/48E/4 7-39N-24E, Apache County, Arizona File 297

Amerada #1 Hopi 5075 well SE/ANE/4 8-29N-19E, Navajo County, Arizona File 310

Gentlemen:

Receipt of your letter of November 16, 1965 is acknowledged.

Insamuch as captioned wells drilled under captioned bond have been completed in accordance with our Rules and Regulations and all required data has been filed with this Commission, this letter will constitute authority from this Commission to terminate captioned bond.

Your cooperation is very much appreciated.

Very truly yours,

John Bannister Executive Secretary

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cc: Insurance Company of NOrth America Philadelphia, Pennsylvania റ

APIERADA PETROLEUM CORPORATION

P. O. BOX 2040

Tulsa 2, Oklahodia

PRODUCTION DEPARTMENT

G. T. KING

ASST. GENERAL SUPERINTENDENT

November 16, 1965

Oil & Gas Conservation Commission State of Arizona 1624 West Adams Phoenix, Arizona

Attention: Mr. John Bannister

Re: Insurance Company of North America Bond #345659, in the amount of \$10,000, covering all Amerada's oil and gas wells located in the State of Arizona.

Gentlemen:

Since Amerada does not intend to carry out any drilling operations in the near future, will you please furnish a release from the above captioned bond.

Yours very truly,

AMERADA PETROLEUM CORPORATION

R. M. Patterson

RMP:cpr

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CORE LABORATORIES, INC. Petroleum Reservoir Engineering DALLAS, TEXAS

December 23, 1964

SZZ PATTERSON BUILDING DENVER, COLORADO 80202

Amerada Petroleum Corporation P. O. Box 601 Durango, Colorado

Attention: Mr. John M. Kershner

SUBJECT: Mud and Cuttings Analysis No. 1 Navajo Tract 91 Well Wildcat Field Apache County, Arizona

Gentlemen:

A mud and cuttings analysis unit was on location at the above well site during drilling operations between the depths of 3700.0 and 6573.0 feet. The mud was continuously monitored for the presence of hydrocarbons. In addition to a standard "Hot-Wire" gas detector, a programmed hydrocarbon detector was utilized for this purpose. Using standard logging procedures, our personnel checked the cuttings at regular intervals for the presence of hydrocarbons and lithology. The results of these operations are shown on the accompanying Grapholog along with other pertinent information, such as a rate of penetration curve, bit record, lithological descriptions, drill stem test results and descriptions of shows encountered.

After reviewing the Grapholog, we feel that it is self explanatory. If, however, there is any matter about which you desire further information or clarification, please notify us and we shall be most happy to discuss the matter with you.

We hope that our services have been of assistance in the evaluation of this well and that we may be of further assistance to you in the future.

Very truly yours,

CORE LABORATORIES, Inc.

Western Division Manager

JDH:vw

November 10, 1964

Amerada Petroleum Corporation Box 1469 Durango, Colorado

Attention: Mr. C.C. Murphy

Re: Amerada Federal #1 well SE/4SE/4, S7-X-39N-R24E, Apache County Permit 297

Gentlemen:

Enclosed is approved copy of application to drill captioned well and receipt for the filing fee.

If this office may be of further assistance to you, please advise.

Yours very truly,

J.R. Scurlock Geologist

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November 2, 1964

Amerada Petroleum Corporation P.O. Box 1469 Durango, Colorado

Attention: Mr. C.C. Murphy

Gentlemen:

Obviously there was a misunderstanding during your telephone call of October 29, 1964. We will accept copies of USGS forms, but we cannot except them in lieu of the forms required by this Commission. Therefore we are enclosing copies of our Application to Drill and request that you complete and return jus as soon as possible.

This misunderstanding is very much regretted and it is hoped we have not greatly inconvenienced you.

Will you please show the dedication for this well to conform with Section 105 of our General Rules and Regulations. We are enclosing a copy of these General Rules and Regulations.

. Yours very truly,

J.R. Scurlock Geologist

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